

TECHNIQUE AND APPARATUS TO CONTROL THE RESPONSE OF A FUEL CELL SYSTEM TO LOAD TRANSIENTS

ABSTRACT OF THE DISCLOSURE

A system includes a first load, a second load, a fuel processor, a fuel cell stack and a circuit. The fuel processor provides a fuel flow, and the fuel cell stack is coupled to the first load and adapted to provide a power in response to the fuel flow. At least some of this power is consumed by the first load. The circuit is adapted to in response to a decrease in the power produced by the fuel cell stack and consumed by the first load, determine whether to route at least some of the power produced by the fuel cell stack and not consumed by the first load to the second load, and based on the determination, selectively route some of the power that is produced by the fuel cell stack to the second load.